Amendments to the Specification:

Please replace paragraph **[0102]** with the following amended paragraph **[0102]**:

[0102] Next, it is determined if the process of improving the local depth maps has reached a predetermined maximum number of iterations, step **410**. If this number has been reached the present depth map is selected as the final local depth map, step **414**. If the number has not been reached, the most recent set of depth changes is analyzed, step **412**. If the changes are less than a predetermined criterion, then the present depth map is selected as the final local depth map, step **414**. Otherwise, the process returns to step **404** and another iteration of depth hypotheses begun. It should be noted that the exemplary ordering of steps **410** and **412** has been selected, since step **410** is less calculationally demanding, but these steps may be reversed, or either one may be omitted.

Please replace the paragraph **[0109]** with the following amended paragraph **[0109]**:

[0109] where Φ represents the cooperative zone, and $e(x,y,x'y')$ is the similarity function for pixels (x,y) and (x',y') in the reference image. To reinforce the uniqueness constraint, the inhibition, $R_n(x, y, d)$, for voxel (x,y,d) is given by equation (3)

$$R_n(x,y,d)=\frac{1}{\max\limits_{(x',y',d')\in\Theta} S_n(x',y',d')}$$

$$R_n(x,y,d)=\frac{1}{\max\limits_{(x',y',d')\in\Theta} S_n(x',y',d')} \quad (3)$$

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